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Data without analytics, a mistake. Data with analytics, a knowledge. Data without insights, an information. Data with insights, an intelligence. Data without management, a disruption. Data with management, a transformation. Like IoT, water demand forecasting systems need to predict the future water demand with high accuracy to achieve optimal water distribution network management. However, the methods and solutions of forecasting used by IoT and water distribution networks are fundamentally different. IoT based on science and research [@horosko2016assessing; @horosko2016smart] while water distribution forecasting based on experience and intuition. Based on data driven forecast techniques, IoT enables the users to collect, analyze and share data in order to achieve an effective management of energy and material flows, e.g., machine-to-machine (M2M) communications [@sharma2016internet]. Water distribution forecasting method is developed based on an experience-driven approach in a specific region, e.g., Australia [@geldart2004demand; @geldart2010demand]. The experience-driven approach is generally used to build a water distribution network model based on the historical data and the model is used to predict future water demand and management. However, the experience-driven approach is less effective for water distribution systems with a variety of parameters [@baker2013methods]. To ensure high accuracy, it is necessary to modify and update the water distribution model frequently. This will incur a high cost and is difficult to realize in an experienced region. IoT is a kind of information technology which is based on sensors and wireless technologies. The main purpose of IoT is to share data among the devices and IoT devices [@horosko2016assessing; @horosko2016smart]. IoT enables the users to access, process and analyze the data from the sensors and devices in order to achieve a better management of energy and material flows. In our future study, we will use IoT to enable the users to use data to predict the water demand. We will use data collected by IoT to learn how to reduce the water distribution cost. In this paper, we propose a data driven forecasting model to predict the water demand in a future water distribution network based on the historical data. Unlike the experience-driven approach used in the Australian water supply system, our approach can achieve a high accuracy of predicting the future demand with less modification and updating. In addition, we model our approach based on Artificial Neural Network (ANN) and Support Vector Regression 82157476af

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